

AMENDMENTS TO THE SPECIFICATION

Please insert the paper copy of the sequence listing, submitted herewith, into the specification.

Please replace Table 3 (page 28) with the following:

Table 3

The substrate specificity of MetAP-*TG in *Escherichia coli*

Substrate ^a	Solubility	Catalytic activity (%)
M [↓] QDWL (SEQ ID NO:10)-Onc	-	91
M [↓] QDWL (SEQ ID NO:10)-Onc ^b	-	80
M [↓] QDWE (SEQ ID NO:11)-RC3	-	96
M [↓] QDWD (SEQ ID NO:12)-RC6	-	82
M [↓] QDWA (SEQ ID NO:13)-RC4	-	93
M [↓] Q [↓] AWA (SEQ ID NO:14)-RC4	-	100(100) ^c
M [↓] A [↓] AWA (SEQ ID NO:15)-RC4	-	100(18)
M [↓] A [↓] PWA (SEQ ID NO:16)-RC4	-	79(63)
M [↓] Q [↓] NEW (SEQ ID NO:17)-RC2	-	80(56)
M [↓] Q [↓] NWA (SEQ ID NO:18)-RCL1	-	96(62)
M [↓] QDWA (SEQ ID NO:19)-RCL1	-	99
M [↓] L [↓] AGA (SEQ ID NO:20)-CA150	+	100(71)
M [↓] QDIL (SEQ ID NO:21)-GST	+	87
M [↓] QDIL (SEQ ID NO:21)-GST ^b	+	71
M [↓] QDIL (SEQ ID NO:21)-GST	-	85
M [↓] QDIL (SEQ ID NO:21)-GST ^b	-	70

Please replace Table 4 (page 31) with the following:

Table 4
***In vitro* catalytic activity of engineered MetAPs toward synthetic oligopeptides**

Substrate	Specific activity (unit/mg) ^a				
	MetAP- YMQ(wt)	MetAP- *GG	MetAP- *TT	MetAP- *TG	MetAP- GTG
MADY (SEQ ID NO:7)	138±8	0.51±0.01	0.38±0.03	72±10	1.68±0.51
MADYLT (SEQ ID NO:8)	138±6	0.29±0.01	0.12±0.01	116±4	2.50±0.42
MQDYLT (SEQ ID NO:9)	0.43±0.01	0.29±0.02	0.13±0.01	0.42±0.02	0.23±0.01
MADWLTFQKKHI (SEQ ID NO:5)	85±13	3.28±0.04	1.00±0.08	73±15	9.80±0.26
MQDWLTFQKKHI (SEQ ID NO:6)	0.62±0.08	0.50±0.02	0.25±0.01	0.59±0.07	4.24±0.14